

EMINENT



MANUAL

EM6015 Camera Surveillance Kit with recorder

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EM6015 Camera Surveillance Kit with recorder

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1.0 Introduction

Congratulations with the purchase of this high-quality Eminent product! This product has undergone extensive testing by Eminent's technical experts. Should you experience any problems with this product, you are covered by a five-year Eminent warranty. Please keep this manual and the receipt in a safe place.

Register your product now on www.eminent-online.com and receive product updates!

1.1 Functions and features

The EM6015 is a digital security recorder with H.264 compression, enabling you to connect eight cameras simultaneously. Thanks to the built-in 500GB hard disk you can setup the EM6015 in such a way, recordings will be made on this hard disk at times you want. Do you want to take specific recordings with you because there has been a break-in? Don't worry! Simply connect a USB memory stick to the EM6015's USB 2.0 port and make a backup of these specific recordings. Thanks to the supplied USB mouse you can control the menu of the EM6015 in a simple manner. The EM6015 is ideal for securing your belongings!

1.2 Packing contents

The following parts need to be present in the packing:

- EM6015 DVR recorder
- Power adapter (2x DC 12V 3A)
- 12V power splitter (1 to 8)
- 4 Coaxial cables (EM6040)
- 4 Surveillance cameras
- Remote control
- USB mouse
- Manual
- CD-ROM with software
- 2 surveillance stickers

- Mounting materials
- Ground Cable

2.0 Using the EM6015

During the following chapters we will explain how to setup the EM6015 and how to install the cameras. It is recommended to setup the EM6015 and install the cameras at your desk before installing and mounting the DVR kit at the desired location. This way, you can easily setup the DVR and check whether the cameras are working correctly.

2.1 Connect the EM6015 to your television or monitor

1. Take the EM6015 out of the packaging.
2. Connect the EM6015 to a monitor which has a VGA connection. Also, you can connect the EM6015 to a special security monitor which has a BNC connection. If you connect the EM6015 to a television which has a cinch connection, then you can use an optional BNC to cinch converter. (You can also use the EM6015 without the use of a monitor, then you can view the EM6015's images through your network using a computer).
3. Connect a video cable to a BNC 'VIDEO-OUT' connection of the EM6015, or connect a video cable to the VGA connection of the EM6015.
4. Connect the other end of the video cable to a BNC connection of your monitor, or connect the cable to the VGA connection of your monitor.

2.2 Connecting the mouse to the EM6015

1. Take the mouse out of the packaging.
2. Connect the USB mouse to the USB port on the EM6015 with the name 'USB MOUSE'.

2.3 Connecting the EM6015 to your network

1. Connect a network cable to the 'RJ45' port of the EM6015.
2. Connect the other side of the network cable to your modem, router or switch.

2.4 Connecting the EM6015 to the power grid

1. Connect the plug of the power supply to the DVR.
2. Connect the small plug of the power cable to the power supply.
3. Connect the plug of the power cable to the wall outlet.
4. Use the on/off button to start the DVR. The on/off button needs to be set to '1'.
5. During the following boot of the DVR, it can take up till 90 seconds before you will see an image.

Note! The eight other cables from the breakout cable will later be used to power the cameras.

2.5 Installing DVR software (optional)

1. Turn on your computer.
2. Place the CD-ROM your computer's CD-ROM or DVD player.
3. The software will start automatically.
4. Choose your language.
5. Choose 'Install Playback Software'.
6. Follow the steps shown on screen to install the software.

3.0 Initial settings

Now the EM6015 has been connected, you can setup a password in order to prevent third parties access. Also, date and time can be setup, this is necessary when making time based recordings. And, if your EM6015 has been connected to your network, you can manually set the IP address data.

Settings mentioned in this manual, can also be adjusted using the supplied remote control. However, since using the EM6015 in combination with the mouse is so user friendly, we have chosen to describe the settings using the mouse.

3.1 Setting up passwords

In order to prevent third parties from gaining access to the settings of the EM6015, you setup a password in the EM6015. There are two different types of accounts which can be used to setup a password. A user account with a password and an admin account with a password. A user account is supposed to be used for the 'normal' user which can only view images and can not alter any settings. An admin account is supposed to be used for the person who is able to view and alter all settings.

3.1.2 Setting up a user account

1. Make sure the EM6015 is completely started, and you can see the EM6015's image on your screen.
2. Click the right mouse button once.
3. Click 'Main Menu'.
4. Click 'Apply'.
5. Click 'Basic'.
6. Click 'Account'.
7. Click 'Config' behind the field 'user1'.
8. Select 'Active' at the 'State' field.
9. If you want, it is possible to create a name for this user at the 'User name' field.
10. Select 'Enable' at 'Password Enable' to setup a password for this user. The requirements for the password are 1-8 digits'.

11. Fill in a password and confirm this password.
12. Click 'Apply' after which the DVR saves this password.
13. Click 'Permissions'. In the following field you can specify the user rights. Make the desired selection.
14. Click 'Apply' to save these settings.
15. Click 'Exit' until you are at the 'Account Setup' field.

3.1.3 Setting up an admin account

1. Click 'Config' at 'user2'.
2. Select 'Active' at the 'State' field.
3. If you want, it is possible to create a name for this user at the 'User name' field, for example 'admin2'.
4. Select 'Enable' at 'Password Enable' to setup a password for this admin account. The requirements for the password are 1-8 digits.
5. Fill in a password and confirm this password.
6. Click 'Apply' after which the DVR saves this password.
7. Click 'Permissions'. In the following field you can specify the user rights. In case of an admin account it is useful to select all permissions.
8. Click 'Apply' to save these settings.
9. Click 'Exit' until you are at the main menu.

Hint: You can create up to 10 user or admin accounts!

3.2 Setting up date and time

1. Click 'Basic'.
2. Click 'Date/Time'.
3. Fill in the date and year at the 'Date' field.
4. You can set the display of date, time and year at the 'Date Format' field.
5. Fill in the correct time at the 'TIME' field.
6. Fill in the time display. You can choose between '24 Hours' and '12 Hours' at the 'Time Format' field.
7. Once you have set the desired settings, click using the left mouse button the 'Modify Date and Time' field once.
8. Click 'Apply'.
9. Click 'OK'.
10. Click 'Exit' until you are at the main menu.

3.3 Network settings

1. Click 'Advanced'.
2. Click 'Network'.
3. At 'Type', 'DHCP' is selected. If there is a DHCP server active within your network, an IP address will be shown at 'IP Addr' , at 'DNS' a DNS server will be shown.

4. If there is no DHCP active within your network, or you want to manually fill in an IP address, set 'Type' to 'Static' and fill in the corresponding IP address data of your network. However, in order to obtain maximum network stability, it is recommended to make use of static IP settings
5. Click 'Apply'.
6. Click 'OK'.
7. Click 'Exit' until you are at the main menu.

In order to obtain maximum network stability, it is recommended to make use of static IP settings.

Attention! In order to access the EM6015 using the Internet, make sure you have filled in the IP address data correctly. If not, a connection from the Internet may not be established.

3.4 Selecting the screen language

The on screen display and webpage of the DVR are available in several languages. This manual is based on the English language which is the default language setting of the DVR. You can select your own language with these instructions:

1. Right click on the screen with the mouse.
2. Click on 'Main Menu'.
3. A login window appears. If you have setup a password earlier, enter your password. If not, continue with the next step.
4. Click on 'Apply'.
5. Click 'Basic'.
6. Click 'Language'.
7. Select your desired language from the list.
8. Click 'Apply'.
9. The system needs to restart, so click 'OK'.
10. After a few minutes the DVR is available in the selected language.

4.0 Connecting a camera

Four cameras are supplied. In the following chapter we will explain how to connect these cameras.

Before mounting the cameras you need to take the following precautions:

- Make sure the cameras can indeed view the area you want to guard. It can be handy to test some locations before mounting the cameras.
- Do not place the cameras directly to the window or other glass surfaces to prevent reflections.
- The night vision of the cameras is limited compared to viewing the image during day time. So make sure the cameras are mounted in such a way, the night vision is sufficient to view the intended area(s) during night time.

- Avoid direct sunlight into the camera, it could cause overexposure
- Place the camera on a spot which is not too easy for unwanted people to sabotage the camera

1. Turn off the EM6015 by pressing the 'Power' button for a few seconds. A status bar will be shown telling you when the EM6015 will be completely turned off.
2. Take the camera out of the packaging.
3. Connect the video cable of the camera to a 'Video In' connection of the EM6015.
4. Connect the power cable of the camera to one of the eight connections of the supplied power breakout cable.

4.1 Checking the cameras image

1. Now you have installed a camera, the cameras image can be checked.
2. Turn on the EM6015.
3. As soon as the EM6015 has been started, you will see that the screen is divided into nine squares. Each of the squares represents a camera-input.
4. If you have connected the camera to the 'Video-In 1' connection, you will see the cameras image appear in the upper left corner on your monitor.

Double-click the square which represents the cameras image to see the cameras image in full screen.

4.2 Adjusting the cameras image

It is possible to alter the screen resolution. Use the following steps.

1. Make sure the EM6015 is completely started and you see the EM6015's image on screen.
2. Click the right mouse button once.
3. Click 'Main Menu'.
4. Enter your password (if setup before) or leave it empty.
5. Click 'Basic'.
6. Click 'Video/Audio'.
7. Set the desired resolution at 'VGA Resolution'. In case you have connected the DVR to a wide screen LCD display which supports high resolutions, you can select '1366x768'.
8. Set the correct television system at 'Camera System'. In Europe, 'PAL' is commonly used. NTSC is mostly used in North-America and Japan.
9. Click 'Apply'.
10. Click 'OK' to confirm the chosen resolution and television system.
11. Click 'Exit' until you are at the main menu.

5.0 Making recordings

The default setting of the digital video recorder is set to record images all the time. There are several other manners to make recordings as well. You can make recordings manually, time based recordings, make recordings when motion is detected, but you can also make recordings which are time based combined with motion detection. Besides the different manners to make recordings, you can also adjust the quality and resolution of the recordings. We will explain how to alter the settings.

To make sure the EM6015 keeps recording, even when the hard disk has reached its capacity, the 'Overwrite' option is activated by default. Using this option, the oldest recordings will be overwritten automatically to maintain sufficient disk space.

5.1 Resolution and bitrate of the recordings

1. Make sure the EM6015 is completely started and you see the EM6015's image on screen.
2. Click the right mouse button once.
3. Click 'Main Menu'.
4. Enter your password (if setup before) or leave it empty.
5. Click 'Record'.
6. Choose the desired resolution and bitrate at 'Resolution' and 'Bitrate'.
7. Click 'Apply'.
8. Click 'OK'.
9. Click 'Exit' until you are at the main menu.

The higher you set the resolution and bitrate, the better the picture on screen will look. However, the higher these settings, more disk space is needed for the recordings.

5.2 Making recording manually

1. Make sure the EM6015 is completely started and you see the EM6015's image on screen.
2. Click the right mouse button once.
3. Click 'Manual Rec'. The recording will start.
4. Click the right mouse button.
5. Click 'Stop Rec' to stop the recording.

5.3 Making recordings continuously

1. Make sure the EM6015 is completely started and you see the EM6015's image on screen.
2. Click the right mouse button once.
3. Click 'Main Menu'.
4. Enter your password (if setup before) or leave it empty.

5. Click 'Record'.
6. Click at the field behind 'Rec Mode' and choose 'Power Up'.
7. Click 'Apply'.
8. Click 'OK' until you are at the main menu.
9. The moment the EM6015 will be started again, recordings will be made continuously.

5.4 Making recordings during motion detection

1. Make sure the EM6015 is completely started and you see the EM6015's image on screen.
2. Click the right mouse button once.
3. Click 'Main Menu'.
4. Enter your password (if setup before) or leave it empty.
5. Click 'Advanced'.
6. Click 'MD'.
7. CH1 stands for the camera which is connected to channel 1. If you want to enable motion detection, select 'On' at 'Status'.
8. Set the amount of sensitivity for motion detection at 'Sensitivity'. '1' is the least sensitive, '4' is highly sensitive.
9. Click 'Setup' behind 'MD Area'.
10. By default, the entire screen is selected as motion detection area. By pressing the left mouse button and keeping it pressed while simultaneously moving the mouse, you can select a specific area on screen. The selected area will be given a red colour. It means that everyone and everything which is present in the red area, will be detected by motion detection.
11. Click the right mouse button once.
12. Click 'Apply'.
13. Click 'OK'.
14. Click 'Exit' until you are at the main menu.

5.5 Time based recording with motion detection

Making recordings using motion detection saves on specific times saves hard disk space compared to other methods of recording. Therefore, older recordings will be stored longer. 'Time based recordings with motion detection' is recommended to use.

1. Make sure the EM6015 is completely started and you see the EM6015's image on screen.
2. Click the right mouse button once.
3. Click 'Main Menu'.
4. Enter your password (if setup before) or leave it empty.
5. Click 'Record'.
6. Click at the field behind 'Rec.Mode' and choose 'Timer Record'.
7. Click 'Schedule'.
8. In the following screen you will see the days of the week (Sun. till Sat.).

9. At the bottom of the screen you will see three coloured squares. If you want, that during an 'event' (for example: Motion Detection) an alarm will be generated, then click using the left mouse button the red square and select a time. The selected time will be red marked.
10. Click 'Save'.
11. Click 'OK'.
12. Click 'Exit' until you are at the main menu'.

If you want to use the 'standard' recording during a specified time, instead of recording during an event, then click using the left mouse button the green square and select a time. If you do not want to make recordings at a specific time, select the blue square first and then select a time.

6.0 Control recordings

When the EM6015 has recorded images, you can search and playback these recordings. There are several manners to playback these recordings: You can search for recordings made at a specific time and you can search for recordings made during an event such as motion detection. You can make a backup of the recorded files and transfer them to a USB memory stick. This is ideal when recorded files need to be handed over to a qualified authority.

6.1 Searching for recordings at a specific time

1. Make sure the EM6015 is completely started and you see the EM6015's image on screen.
2. Click the right mouse button once.
3. Click 'Main Menu'.
4. Click 'Search'.
5. In the following screen you will see several fields: 'Record File' and 'Record State'.
6. If you want to search for recordings on a specific date, click 'Record File' and select the date on which you want to search.
7. Click 'Search'. The date you have selected is marked.
8. Click 'File List'. A new list will be shown with the times recordings have been made.
9. If you want to view a specific type of recording, click the arrow behind 'Type'. Make your choice, for example: 'Alarm'. All 'events', such as motion detection will be shown.
10. To view the recordings, click the specific recording in order to playback the recording.
11. In order to close the playback of the recording, click with the left mouse button on the cross at the right upper side. You will return to the overview of the made recordings.

6.2 Making a backup of a recording

The EM6015 is able to copy recordings to a USB memory stick by using the EM6015's USB 2.0 port. This way, recorded files can be used as evidence. Copying the recordings can take a while, depending on the size of the recordings.

1. Place a mark in the square behind the recording you want to backup.
2. Then click 'Backup'.
3. You will get a notification on screen saying that the recording is being saved.
4. As soon as the recording has been saved, you will see the notification 'Backup is successful'.
5. Click 'OK'.
6. You have now made a backup of the recording.
7. Click 'Exit' until you are at the main menu.

6.2.1 Playback a backup using the software

Using the installed DVR software, you are able to playback a backup. In the following chapter we will explain how you can open a backup and how to playback a backup.

1. Make sure your computer is completely started.
2. Insert the USB memory stick into a free USB port of your computer.
3. Click 'Start'.
4. Click 'Programs' or 'All Programs'.
5. Select 'Playback Software' and click 'Playback Software', after which the software will start.
6. Click 'File' at the upper left corner of the menu.
7. Then click 'Open Local File'.
8. Select the USB memory stick and set 'File Types' to 'All Mediafiles'.
9. Select the backup you want to playback and click 'Open'.
10. Now press the 'Play' button to start the playback of the backup.

6.2.2 Converting to AVI

The supplied Playback software also allow you to convert the .H264 video files to AVI files. In case you need to hand over recorded files to a qualified authority, this can be handy since the AVI form is a well know standard and is easy to playback on all sorts of devices. Use the steps below to convert the .H264 recordings.

1. Click 'Programs' or 'All Programs'.
2. Select 'Playback Software'.
3. Now click the 'Convert to AVI' icon in the tray as shown in the picture below:

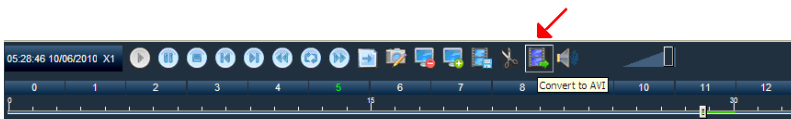


Figure 1.

4. Click the 'Folder' icon and browse to the .H264 file you want to convert.
5. Click 'Open'.
6. Select the 'Disk' icon and select a location where you want to save the .AVI to.
7. Click the green arrow to start the conversion.

7.0 Setting up an alarm notification

You can setup the EM6015 in such a way, that an alarm notification will be given at the same moment, motion will be detected. Also, you can setup the amount of time this alarm notification will last. This alarm notification will be a buzzer (beeping sound). Use the following steps to setup an alarm notification.

7.1 Setting up an alarm notification during motion detection

1. Make sure the EM6015 is completely started and you see the EM6015's image on screen.
2. Click the right mouse button once.
3. Click 'Main Menu'.
4. Enter your password (if setup before) or leave it empty.
5. Click 'Advance'.
6. Click 'Alarm'.
7. At 'Alarm Settings', click the arrow at 'Buzzer' once, and select the time duration for the alarm notification. For example, select '10S' (ten seconds).
8. Click 'Apply'.
9. Click 'OK'.
10. Click 'Exit'.
11. As soon as motion has been detected, an alarm notification will be given for the time duration of ten seconds.
12. Click 'Exit' until you are at the main menu

7.2 Sending an email during alarm notification

1. Make sure the EM6015 is completely started and you see the EM6015's image on screen.
2. Click 'Main Menu'.
3. Enter your password (if setup before) or leave it empty.
4. Click 'Advanced'.
5. Click 'Alarm'.
6. Click 'Email Setup'.
7. Click the arrow at 'Email' and select 'ON'.
8. Fill in at 'SMTP Port' port number 25.
9. Fill in at 'SMTP' the name of your SMTP server.
10. Fill in at 'Send Email' the email address of the recipient.

11. Fill in at 'Send PW' the password.
12. Fill in at 'Recv Email' the email address of the recipient.
13. Click 'APPLY'.
14. Click 'OK'.
15. Click 'Exit' until you are at the main menu.

8.0 Accessing the EM6015 locally

You can view the live video of the DVR and change settings on your Windows computer using Internet Explorer.

1. Connect a UTP networking cable to your network (router or switch) and connect the other end to the LAN port of the DVR.
2. Click 'Main Menu'.
3. Enter your password (if setup before) or leave it empty.
4. Click 'Advanced'.
5. Click 'Network'.
6. Check if the DVR has received an IP address.
7. Open the Internet Explorer on your computer
8. Enter the IP address from the DVR in the address bar. For example, if the DVR has the IP address 192.168.1.120, you need to enter 'http://192.168.1.120' in the address bar.
9. Press Enter to open the page.
10. A message will appear asking if you want to install 'DvrOcx.ocx'. Accept this to continue. If a message bar appears, right click on the bar and choose 'Run ActiveX element'.
11. Click 'Run', the page will be then be reloaded.
12. You will now see a login page where you can enter your username and or password.

If you do not see the login page or see some kind of error, you need to follow these steps to correct this.

1. In the Internet Explorer, open the menu 'Tools'.
2. Go to 'Internet Options'
3. Go to 'Security'.
4. Select the zone you are currently working in (Local Intranet or Internet is most common).
5. Click 'Custom level'
6. Check if 'Download unsigned ActiveX controls' is set to 'Enable'.
7. Check if 'Initialize and script ActiveX controls not marked as safe..' is set to 'Enable'.
8. Click OK.
9. Click Apply or OK.
10. Try the first 10 steps from this chapter again to open the webpage of the DVR.

Hint, you also might need to follow the steps when viewing the webpage externally.

9.0 Accessing the EM6015 externally and the use of dynDNS

Sometimes, you can not be on location, but you want to be able to continue monitoring the spaces the EM6015 is watching. In that case you can access the EM6015 using the Internet. In order to access the EM6015 through the Internet, you need to know your WAN IP address.

9.1 Accessing the EM6015 through the Internet

You have to open or forward port 80 and 9000 in your router in order to access the EM6015 through the Internet. Refer to the manual of your router for these settings. Once you have made the correct settings, type the following in order to access the EM6015: `http://12.34.56.78` (Where you have to fill in your WAN IP address on the same spot as the numbers).

Hint: In order to view your WAN IP address, type in your address bar the following: www.eminent-online.com/ip.

9.2 Using dynDNS

Some ISP's do change your WAN IP address once a month or even every week. In that case, you are not longer able to access the EM6015 externally. In such a case, the use of dynDNS is the ideal solution: Thanks to dynDNS you can access the EM6015 externally, no matter if your WAN IP address has changed.

9.2.1 What is dynDNS?

With the use of dynDNS you can link a domain name to your WAN IP address permanently, even if your WAN IP address has changed. Without this link, you would lose the connectivity with your network equipment the moment your WAN IP address has changed.

A big advantage of using dynDNS is the use of a fixed name instead of the use of an IP address. You only have to remember the self created domain name instead of a whole number sequence. Also, your network equipment will remain accessible, even if your WAN IP address has changed. The name, linked to the WAN IP address, will remain the same. This way, you will always be able to login if you have an Internet connection available.

Hint: Create a dynDNS account on: www.dyndns.org.

9.2.2 Setting up dynDNS in the EM6015

1. Make sure the EM6015 is completely started and you see the EM6015's image on screen.
2. Click the right mouse button once.
3. Click 'Main Menu'.
4. Enter your password (if setup before) or leave it empty.
5. Click 'Advanced'.
6. Click 'Network'.
7. Click 'DDNS SETTINGS'.
8. Select 'ON' at 'DDNS'.
9. Choose 'dyndns' at 'Service'.
10. Then fill in the necessary data. If correct, you have obtained this data while creating a dynDNS account on www.dyndns.org.
11. Click 'Apply'.
12. Click 'OK'.
13. Click 'Exit' until you receive the notification the system will be restarted. Click 'OK'.

Hint: If you have already setup a dynDNS account in your router, there is no need to setup a dynDNS account in the EM6015.

10.0 Viewing images on your mobile phone

The EM6015 is equipped with a so called 'Mobile' function. This function enables you to view the EM6015's images on supported phones.

10.1 Setting up the EM6015 for your mobile phone

1. Make sure the EM6015 is completely started and you see the image on screen.
2. Click the right mouse button once.
3. Click 'Main Menu'.
4. Enter your password (if setup before) or leave it empty.
5. Click 'Advanced'.
6. Click 'Mobile'.
7. Select the right band at 'Mobile Network'. (Also see the 'Frequently asked questions' for more information about the correct settings).
8. 'Mobile Port' can be set to 15962 (for example) unless you have already forwarded this port in your router.
9. Click 'Apply'.
10. Click 'OK'.
11. Click 'Exit' until you are at the main menu.

Hint: The port, specified at 'Mobile Port', needs to be forwarded in the firewall of your router. If you do not forward or open this port, images can not be seen on your mobile

phone. Refer to the manual of your router how to open ports. During the next chapter we will explain how to open ports on the EM4570 wLINK 300.

10.2 Port Forwarding on the EM4570 wLINK 300

Sometimes, opening ports in your router can be difficult. Therefore, we have created a special chapter which explains how to open/forward port 15962 in the EM4542 wLINK 300 wireless router. This is an example.

1. Open your web browser (e.g. Internet Explorer, Netscape or Firefox).
2. Type 'http://192.168.8.1' in the address bar.
3. Press the enter key or click 'Go to'.
4. You will now be asked for a 'Username' and a 'Password'. Fill in 'admin' in the 'Username' field and 'admin' in the 'Password' field and press the 'Enter' key.
5. The login screen is shown.
6. Click 'Setup Tool'.
7. Click 'Advanced Setup' in the left menu.
8. Click 'Port Forwarding' bellow 'NAT/Routing' in the left menu.
9. In the field 'LAN IP-address you can fill in the IP-address of the DVR for which you want to open the specific port.
10. Select the correct protocol in the 'Protocol' field.
11. Fill in the necessary port at the 'External port' field, in this case '15962'. Fill in the start or begin port in the first field, in this case '15962'. In the second field you can fill in the end port, in this case '15962'.
12. Fill in the same port number in the 'Internal Port' field.
13. Fill in a name in the 'Rule Name' field. For Example: 'Mobile'.
14. Click 'Add'.
15. Click 'Save'.

10.3 Setting up your Mobile phone

The EM6015 can be used with several types of mobile phones. Support is available for mobile phones with the following operating systems :

- Windows Mobile
- Symbian
- Blackberry
- iOS (iPhone, iPad, iPod)
- Android (Smartphone or tablet)

Software and separate manuals for each operating system are available on the supplied CD-ROM and on the Eminent website.

11.0 Mounting a (new) hard disk

Although the EM6015 is equipped with a 500GB hard disk which should provide enough storage capacity, it can occur you want to replace the supplied hard disk for a hard disk with a larger capacity. Use the following steps to mount a new hard disk:

1. Make sure the EM6015 is disconnected from the power grid and all other cables are disconnected.
2. Remove the screws from the side of the casing. Also, you need to remove the screws at the backside which are holding the casing on it's place.
3. Carefully lift the cover upwards.
4. You will now see the original hard disk. Remove the SATA cables form the hard disk and remove the hard disk.
5. Connect the new hard disk using the SATA cables and carefully place the hard disk in the EM6015.
6. Place the cover back onto the casing and tighten the screws again.
7. Connect al necessary cables and start the EM6015.
8. Once the EM6015 has been started, click the right mouse button once.
9. Click 'Main menu'.
10. Click 'HDD'.
11. Click 'HDD Format' and click 'OK' once the formatting has finished.
12. Click 'Exit' until the EM6015 notifies you to restart the system.
13. Click 'OK'.

12.0 Other functions

In the EM6015's menu, you will find a few functions which have not been explained yet. In this chapter we will shortly explain these functions.

- HDD:** Here you can view the status of the built-in hard disk. You can format the hard disk or format a USB stick connected to the EM6015. You can also enable or disable the overwrite option, which is on by default.
- INFO:** View the software status, MAC Address and serial number of the EM6015.
- MAINTAIN:** Perform a firmware update, reset the device back to factory defaults or restart the device.

13.0 Frequently Asked Questions

- A:** At the back of the EM6015 I can see eight 'AUDIO-IN' ports and an 'AUDIO-OUT'. Where are these ports for?

A: You can connect a microphone to an 'Audio-IN' port to hear sound with your recordings. Connect a microphone to 'AUDIO-IN'1, then you have to place the microphone near camera 1. Using the 'AUDIO-OUT' port you can hear (Mono) sound if a speaker or receiver is connected to this port.

Q: I have recorded image and sound. But when I playback the recording, the sound lacks volume. What can I do about it?

A: Follow the steps below:

1. Make sure the EM6015 is completely started and you see the EM6015's image on screen.
2. Click the right mouse button once.
3. Click 'Main Menu'.
4. Enter your password (if setup before) or leave it empty.
5. Click 'Basic'.
6. Click 'Video/Audio'.
7. Click 'Volume Setup'.
8. Move the sliding bar completely to the right. The more this bar slides to the right, the louder volume will be recorded.

Q: In chapter 11.1 the manual mentions a 'band' at 'MOBILE NETWORK'. What does this mean?

A: In the EM6015 you can choose between '3G', 2,75G (EDGE)' and '2,5G (GPRS)'. Each band delivers a certain amount of 'Frames per second (Framerate)', where '2,5G' delivers the least amount of frames per second and '3G'the most amount of frames per second. More frames per seconds means a more fluent the image will be. Refer to the manual of your mobile phone to select the correct band, and also see the following table.

2.5G	5fps	20kbps
2.75G	5fps	32kbps
3.0G	15fps	192kbps

Q: Can I use my iPhone, smartphone or tablet to connect to the DVR recorder and view images?

A: Yes, you can use your iPhone, smartphone or tablet to connect to the DVR recorder. Please refer to the CD-rom or our website for separate manuals for several devices.

Q: Must I always be near the EM6015 in order to alter the settings of the EM6015?

A: No, that is not necessary. You can also alter the settings when you are somewhere else (But still in your own network) by logging in using the local IP address of the EM6015. If you are at (another) external location you can alter the settings by logging in using the WAN IP address.

Q: How can I reset the EM6015?

A: Follow the steps below:

1. Make sure the EM6015 is completely started and you see the EM6015's image on screen.
2. Click the right mouse button once.
3. Click 'Main Menu'.
4. Enter your password (if setup before) or leave it empty.
5. Click 'Advanced'.
6. Click 'Maintain'.
7. Click 'Default Settings'.
8. Click 'All'.
9. Click 'Load Default'.
10. Click 'OK'.
11. As soon as the default factory settings have been restored, click 'OK' once more.
12. Click 'Exit' until you see the notification the EM6015 needs to be restarted.
13. Click 'OK'.

Q: I am able to connect a USB device as a backup device. Is a USB hard disk supported for this function?

A: The EM6015 only support USB memory sticks. Note that only USB memory sticks with solely a memory function will work. Some memory sticks have security software on a virtual CD-rom player. Disable this function to be able to use it on the DVR.

Q: Is there a limit to the hard disk size which can be used in the EM6015?

A: The EM6015 has been tested with 2TB hard disks.

Q: How can I perform a firmware update?

A: If available, download the latest firmware from the Eminent website.

1. Unpack the file(s).
2. Copy the unpack file(s) to a USB memory stick. Note that you need to have the place 'dvrupgrade' folder (with the firmware file) in the root of the USB memory stick
3. Go to the DVR. Click the right mouse button once on the screen.
4. Go to 'Main Menu'.
5. Enter your password (if setup before) or leave it empty.
6. Click 'Apply'.
7. Click 'Advanced'.
8. Click 'Maintain'.
9. Click 'System Update' after which the EM6015 searches for a connected USB memory stick.
10. Follow the steps shown on screen.

14.0 Service and support

This users manual has been carefully written by Eminent's technical experts. If you have problems installing or using the product, please fill out the support form at the website www.eminent-online.com/support.

You can also contact us by phone. Below you will find a list with phone numbers for each supported country.

Country	Phone number	Rate per minute*
Belgium (Dutch)	070 277 286	€0.30
Belgium (French)	070 277 286	€0.30
Denmark	+45 69918565	Local Costs
Finland	+35 8942415826	Local Costs
Germany	1805 982 234	€0.14
Italy	+39 0240042016	Local Costs
Norway	+47 21075033	Local Costs
Spain	807 080 042	€0.41
Sweden	+46 840 309985	Local Costs
The Netherlands	0900-3646368	€0.45
UK	905 871 0013	£0.30

* Rates mentioned in this table do not include cell phone charges.

15.0 Warning and points of attention



Due to laws, directives and regulations set out by the European parliament, some (wireless) devices could be subject to limitations concerning its use in certain European member states. In certain European member states the use of such devices could be prohibited. Contact your (local) government for more information about this limitations.

Always follow up the instructions in the manual, especially where it concerns devices which need to be assembled.

Warning: In most cases this concerns an electronic device. Wrong/improper use may lead to (severe) injuries!

Repairing of the device should be done by qualified Eminent staff. The warranty immediately voids when products have undergone self repair and/or by misuse. For extended warranty conditions, please visit our website at www.eminent-online.com/warranty.

16.0 Warranty conditions

The five-year Eminent warranty applies to all Eminent products unless mentioned

otherwise before or during the moment of purchase. When having bought a second-hand Eminent product the remaining period of warranty is measured from the moment of purchase by the product's first owner. The Eminent warranty applies to all Eminent products and parts inextricably connected to and/or mounted on the main product. Power supply adapters, batteries, antennas and all other products not integrated in or directly connected to the main product and/or products of which, without reasonable doubt, can be assumed that wear and tear show a different pattern than the main product are not covered by the Eminent warranty. Products are not covered by the Eminent warranty when subjected to incorrect/improper use, external influences and/or when opened by parties other than Eminent.

17.0 Declaration of Conformity

To ensure your safety and compliance of the product with the directives and laws created by the European Commission you can obtain a copy of the Declaration of Conformity concerning your product by sending an e-mail message to: info@eminent-online.com. You can also send a letter to:

Eminent Computer Supplies
P.O. Box 276
6160 AG Geleen
The Netherlands

Clearly state 'Declaration of Conformity' and the article code of the product of which you would like to obtain a copy of the Declaration of Conformity.



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